

7" METAL CUTTING BANDSAW MODEL NO: CBS7MC

PART NO: 6460123

OPERATION & MAINTENANCE



ORIGINAL INSTRUCTIONS

GC0922 Rev 1

INTRODUCTION

Thank you for purchasing this CLARKE Bandsaw which is designed for DIY & light industrial use.

Before attempting to operate the machine it is essential that you read this manual thoroughly and carefully follow all instructions given. In doing so you will ensure the safety of yourself and that of others around you and you can look forward to the product giving you long and satisfactory service.

GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

ENVIRONMENTAL PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All unwanted accessories and packaging should be sorted and taken to a recycling centre for disposal in a manner which is compatible with the environment.

ENVIRONMENTAL RECYCLING POLICY



Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste but according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

SPECIFICATIONS

Weight	135kg
Dimensions Folded Down (L x W x H)	1220 x 495 x 1001mm
Dimensions Folded Up (L x W x H)	1220 x 495 x 1630mm
Table Height from Floor	610mm
Tilt Angle	0 - 45°
Maximum Cutting Capacity@0°	Height: 180mm Width: 270mm
Maximum Cutting Capacity@45 ⁰	Height: 180mm Width: 120mm
Throat/Cutting Width	335mm
Blade Speed (4 speeds)	22, 33, 45, 65m/min
Blade Size	2360 x 19 x 0.9mm - 6 tpi
Supply Cable Length	1900mm
Sound Power Level Measured (Lw)	85.8dB(A) whilst cutting
Operating Voltage	230V - 50Hz
Output Wattage	1100W
IP Rating	IP20

SAFETY SYMBOLS

	Read the manual and safety instructions before use	Wear eye protection	Wear protective mask
	Wear ear protection	Wear protective gloves	Disconnect from Power Supply When Not in Use
Â	Warning: Electricity	Warning: Sharp Blade	Warning: Risk of Trapping Hand/ Fingers

SAFETY WARNINGS



CAUTION: FAILURE TO FOLLOW THESE PRECAUTIONS COULD RESULT IN PERSONAL INJURY, AND/OR DAMAGE TO PROPERTY.

WORK ENVIRONMENT

- 1. Please read these instructions carefully and retain for future reference.
- 2. **ALWAYS** keep the work area clean and well lit. Cluttered and dark areas invite accidents.
- 3. **DO NOT** operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- 4. This machine is designed for indoor environments only and must not be used for other purposes.
- 5. ALWAYS keep children and bystanders away while operating a power tool. Anyone entering the work area must wear personal protective equipment (PPE). Distractions can cause you to lose control and fragments of work or a broken blade may fly away and cause injury.
- 6. **ALWAYS** store power tools correctly when not in use. Abrasive products should be stored in a dry, secure place out of the reach of children.

ELECTRICAL SAFETY

- Power tool plugs must match the outlet. NEVER modify the plug in any way. DO NOT use adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.
- 2. **DO NOT** expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- DO NOT abuse the power cable. NEVER use the cable for carrying, pulling or unplugging the power tool. Keep the cable away from heat, oil, sharp edges or moving parts. Damaged or entangled cables increase the risk of electric shock.
- 4. **ALWAYS** position the power cable so that it cannot be inadvertently pulled or pinched, and where it does not cause a trip hazard.
- 5. DO NOT use extension power cables.
- 6. Before cleaning or maintenance tasks, **ALWAYS** unplug the machine from the power supply.

PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a power tool. **DO NOT** use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in personal injury.
- 2. ALWAYS use personal protective equipment (PPE). Wear eye protection, safety equipment such as dust mask, non-slip safety shoes, hearing protection and a workshop apron capable of stopping small abrasive or workpiece fragments.
- 3. **AVOID** accidental starting. Ensure the switch is in the off position before plugging in. Plugging in power tools that have the switch in the on position invites accidents.
- 4. **ALWAYS** remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a moving part of the power tool may result in personal injury.
- 5. **DO NOT** overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 6. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- 7. **AVOID** operator fatigue. Stop the power tool at regular intervals for a short break to rest hands and arms.
- 8. This machine must only be used by adults. Children **<u>SHOULD NOT</u>** be allowed to play with this product.

POWER TOOL USE AND CARE

- 1. **DO NOT** force the machine. Use the correct power tool for your application. It will do a better and safer job at the rate for which it was designed.
- 2. **DO NOT** use the power tool if the switch does not turn it on or off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- 3. **ALWAYS** disconnect the power tool from the power supply before making any adjustments, changing accessories, or storing the tool. These measures will reduce the risk of the power tool starting accidently.
- Store power tools out of the reach of children and DO NOT allow persons unfamiliar with these instructions to operate the power tool. Power tools are potentially dangerous in the hands of untrained users.
- 5. Maintain power tools in top condition. Keep tools/ machines clean for the best and safest performance. Check for misalignment or binding of moving parts, broken parts, or any condition that may affect the power

tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools. If in doubt, **DO NOT** use the machine. Consult your local CLARKE dealer.

- 6. Machine cleanliness. **DO NOT** allow the ventilation slots in the machine/ motor to become blocked with dust.
- 7. Regularly clean the power tool's air vents. The motor fan will draw dust inside the housing and accumulation of material could cause electrical or fire hazards.
- 8. Maintain your tools. Keep all handles and grips dry and clean.

SERVICING

1. When necessary, have your power tools serviced or repaired by a qualified person using identical replacement parts (see pages 36-41). This will ensure that the safety of the power tool is maintained.

ADDITIONAL PRECAUTIONS FOR BANDSAWS

- 1. **ALWAYS** check safety guards are in place and functioning correctly before switching the machine on.
- 2. ALWAYS use the appropriate saw blade for the material being cut.
- 3. **NEVER** use the machine if the electric cable, plug or motor is in poor condition.
- 4. **NEVER** touch the blade immediately after use, when changing the blade always allow time for it to cool.
- 5. **NEVER** use bent or cracked blades. (Replacement blades are available from your CLARKE dealer, see page 32).
- 6. When cutting round stock, use a suitable jig or fixture to keep the work from turning.
- 7. **ALWAYS** ensure the blade is fully tightened and correctly adjusted before use.
- 8. ALWAYS switch the machine off immediately the task is completed.

ELECTRICAL CONNECTIONS



WARNING! Read these electrical safety instructions thoroughly before connecting the product to the mains supply.

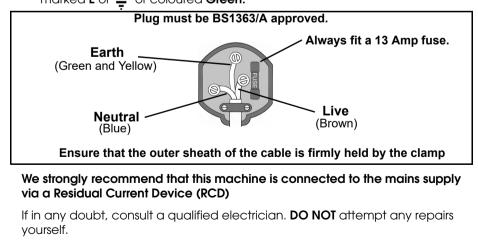
Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230VAC 50Hz. Connecting it to any other power source may cause damage.

This product may be fitted with a non-rewireable plug. If it is necessary to change the fuse in the plug, the fuse cover must be refitted. If the fuse cover becomes lost or damaged, the plug must not be used until a suitable replacement is obtained.

If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.

If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The **Blue** wire must be connected to the terminal which is marked **N** or coloured **Black**.
- The **Brown** wire must be connected to the terminal which is marked **L** or coloured **Red**.
- The Yellow and Green wire must be connected to the terminal which is marked E or + or coloured Green.



OVERVIEW



Item	Description	Item	De
1	Blade Tension Handle	7	Fe
2	Blade Guide Adjustment Knob	8	Lu
3	Lubricant Control Valve	9	Sc
4	Blade Guides	10	Vi
5	Motor	11	Αι
6	Feed Rate Control Knob	12	Blo

Item	Description
7	Feed ON/OFF Valve Lever
8	Lubricant Pump ON/OFF Switch
9	Saw Motor ON/OFF Switch
10	Vice Handwheel
11	Automatic Shut Off Switch
12	Blade Tracking Controls

9

ASSEMBLY PARTS

			4 7 6 7 6 7 6 7
Item	Description	Item	Description
Item	Work Stop and Rod	Item 6	Hydraulic Cylinder
1 2	Work Stop and Rod 4 x 3mm x 30mm Cotter Pin		Hydraulic Cylinder Feed Rate Control Knob
1	Work Stop and Rod	6	Hydraulic Cylinder
1 2	Work Stop and Rod 4 x 3mm x 30mm Cotter Pin	6 6A	Hydraulic Cylinder Feed Rate Control Knob

ASSEMBLY & SET UP

The bandsaw comes partly assembled. Unpack and lay out all the items and identify each one, referring to pages 9 & 10.

If any parts are missing, immediately contact the dealer where the product was purchased.

CLEAN UP

The unpainted surfaces of your machine are coated with a heavy duty rust preventative that prevents corrosion during shipment and storage. This rust preventative works extremely well, but it will take a little time to clean.

There are many ways to remove this rust preventative, but the following steps work well in a wide variety of situations. Always follow the manufacturers instructions with any cleaning product you use and make sure you work in a well ventilated area to minimise exposure to toxic fumes.

BEFORE CLEANING, GATHER THE FOLLOWING:

- Disposable rags/cloth
- Cleaner/degreaser
- Safety glasses & disposable gloves
- Plastic paint scraper (optional)

BASIC STEPS FOR REMOVING RUST PREVENTATIVE

- 1. Coat the rust preventive with a liberal amount of cleaner/degreaser and let it soak for 5-10 minutes.
- 2. Wipe off the surface. If the cleaner/degreaser is effective, the rust preventative will wipe off easily. If you have a plastic paint scraper, scrape off as much as you can first, then wipe off the rest with a rag.
- 3. Repeat steps 1 & 2 as necessary until clean, then coat all unpainted surfaces with a quality metal protectant to prevent rust.

SHIPPING BRACKET

A shipping bracket has been installed on the bandsaw to protect the alignment of the bow during shipment. After removal, store the bracket in a safe place until you need to move or ship the bandsaw in the future. 1. Unbolt the shipping bracket shown here.

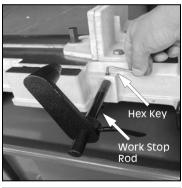
NOTE: Retain all components, as the bracket can be reinstated if the bandsaw needs transporting/ shipping in the future.

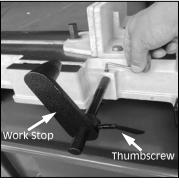


INSTALLING WORK STOP

- 1. Insert the work stop rod through the hole in the base and lock in place with a hex key and screw.
- 2. Slide work stop over the rod.

3. Measuring from the outside of the blade, tighten the thumbscrew to set the work stop at the desired length.





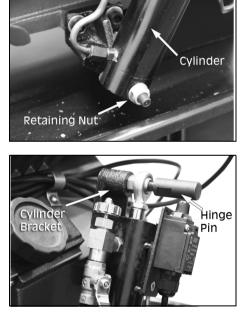
INSTALLING THE HYDRAULIC CYLINDER

1. Unscrew the retaining nut from the cylinder support rod and tighten the bolts that hold it to the side of the machine using a 17mm spanner.



 Slide the cylinder onto the rod, as shown, with the feed rate control knob pointing upwards and refit the retaining nut into position at the end of the support rod.

- Insert the hinge pin through the hole in the end of the piston and move the cylinder upwards towards the cylinder bracket attached to the main arm.
 - NOTE: In order to screw the hinge pin into the bracket, it may be necessary to depress the piston. Alternatively, get a second person to raise and support the bandsaw arm



until the hinge pin is aligned with the hole in the bracket.

4. Screw in and tighten the hinge pin using a 14mm spanner.

INSTALLING THE WHEELS

COMPONENTS & HARDWARE NEEDED

- 4 x Wheels
- 2 x Axle
- 4 x Cotter Pins (3 x 30mm)
- 4 x Flat Washers (5/8")
- 1. Slide axle through the holes in the bottom of the cabinet.

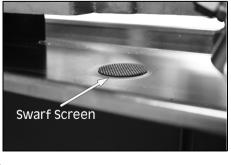
 Slide the flat washers onto the axle, followed by the wheels. Secure the wheels with the cotter pins as shown.





INSTALLING THE SWARF SCREEN

1. To prevent swarf getting into the blade lubricant and pump, place the swarf screen over the drainage hole in the centre of the drip tray as shown.



DRIVE V-BELT

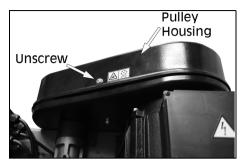
The drive belt may need to be tensioned or repositioned for your desired speed.

Hex Bolts on

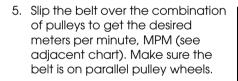
Motor Mount Bracket 🔍

Hex Bolts on໌ Motor Mount Plate

- 1. Disconnect the machine from the power supply.
- 2. Unscrew the cover to the pulley housing



- 3. Loosen the two hex bolts on the motor mount bracket, as shown.
- 4. Adjust the two hex bolts on the motor mount plate to loosen the belt.



- 45 Motor Pulley Wheel Pulley
- 6. Readjust and tighten the two hex bolts on the motor mount plate.
- 7. Retighten the two hex bolts on the motor mount bracket.

CUTTING SPEED RATE RECOMMENDATION

Selecting the right blade speed for cutting depends on the type of material being cut. Selecting the correct blade speed prolongs the life of the blade and provides the best possible cutting results.

The Cutting Speed Rate Recommendation Chart that follows offers guidelines only for various metals, given in feet per minute (FPM) and meters per minute (MPM). Choose the speed closet to the number shown in the chart.

Material	Speed FPM (MPM)	Material	Speed FPM (MPM)
Carbon Steel	196 - 354	Oil Hardened Tool	206 - 2132
	(60 - 108)	Steel	(62 - 65)
Tool Steel	203 (62)	Stainless Steel	85 (26)
Alloy Steel	111 - 321 (34 - 98)	CR Stainless Steel	85 - 203 (26 - 62)
Free Machining	150 - 203	Thin Tube	180 - 220
Stainless Steel	(46 - 62)		(54 - 67)
Angle Steel	180 - 220 (54 - 67)	Aluminum Alloy	220 - 534 (67 - 163)
High Speed Tool	75 - 118	Copper Alloy	229 - 482
Steel	(25 - 36)		(70 - 147)
Mold Steel	246 (75)	Grey Cast Iron	108 - 225 (33 - 75)
Cold Work Tool	95 - 213	Ductile Austenitic	65 - 85
Steel	(29 - 65)	Cast Iron	(20 - 26)
Hot Work Tool	203	Malleable Cast	321
Steel	(62)	Iron	(98)
Water Hardened	246	Plastic	220
Tool Steel	(75)		(67)

BLADE SELECTION

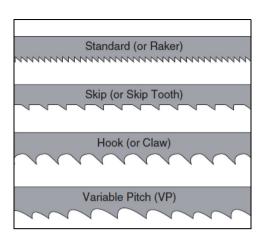
TOOTH PITCH

Usually measured as TPI (teeth per inch), tooth pitch determines the size/ number of the teeth. More teeth per inch (fine pitch) will cut slower but smoother, while fewer teeth per inch (coarse pitch) will cut rougher but faster.

As a general rule, choose blades that will have at least three teeth in the material at all times. Use fine pitched blades on harder metals and coarse pitched blades on softer metals. When selecting blades blades, refer to the above chart and following diagram for recommended blade tooth (TPI) and speed (FPM) based on workpiece material.

TOOTH STYLE

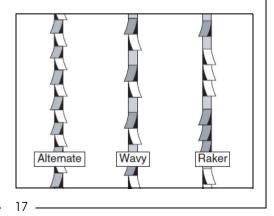
When selecting blades, another option to consider is the shape, gullet size, teeth set and teeth angle, otherwise known as Tooth Style. Many blade manufacturers offer variations of the four basic styles, as shown.



- **Standard**: This style is considered to be the standard because the tooth size and shape are the same as the tooth gullet. The teeth on these blades usually are very numerous, have no angle and produce cuts by scraping the material; these characteristics result in very smooth cuts, but do not cut fast and generate more heat that other types while cutting.
- **Skip**: This style is similar to a raker blade that is missing every other tooth. Because of the design, skip toothed blades have a much larger gullet than raker blades, and therefore cuts faster and generate less heat. However, these blades also leave a rougher cut than the raker blades.
- **Hook**: The teeth on this style have a positive angle (downward) which makes them dig into the material and the gullets are usually rounded for easier waste removal. These blades are excellent for the tough demands of re-sawing and ripping thick material.
- Variable Pitch: These blades typically feature combinations of tooth styles that provide qualities of both.

TOOTH SET

Three of the most common tooth sets are Alternate, Wavy & Raker



CHOOSING BLADE TPI

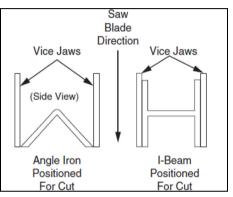
Selecting the right blade for the job depends on a variety of factors, such as type, hardness and shape of the material being cut, machine capability and operator technique.

The chart below is a basic starting point for choosing blade type based on teeth per inch (TPI) for variable tooth pitch blades and for standard raker type bi-metal blades/HSS blades. As a general rule, there should be at least 3 teeth in contact with the workpiece at all times. However, for exact specifications of bandsaw blades, contact the blade manufacturer.

When cutting structural shapes such as angle iron or I-beams, workpieces should be positioned to maintain the same material width throughout the cut, as illustrated.

To select the correct blade TPI:

 Measure the material thickness. This measurement is the length of cut taken from where the tooth enters the workpiece, sweeps through and exits the workpiece.



- 2. Refer to the Material Width row of the blade selection chart below and read across to find the workpiece thickness you need to cut.
- 3. In the centre row, find the TPI that corresponds to the workpiece thickness.

Mater	ial	Width				Teeth	Per /	Inch									
		TOOTI ►mm €		ECTIC 1	2 2	1	50)	100		150		200		250		300
			10-14	8-12	6-10	5-8		3-4		2	-3			1.4	-2.5		
	Ц	⊳inch ¹	/8 1/	4 1	/2	1 1½	2	3	4	5	6	7	8	9	10	11	12

TEST RUN

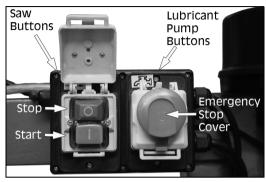
Once the assembly has been completed, test run the machine to ensure it is properly connected to the power and safety components are functioning correctly.

If you find an unusual problem during the test run, immediately stop the machine, disconnect it from the power source and fix the problem before operating the machine again. The troubleshooting table on page 33-35 of this manual may help.

OPERATION

STARTING & STOPPING

The bandsaw has two start/stop buttons. One for the saw motor and one for the lubricant pump. They both have a spring loaded emergency stop cover, which should always be in the down position when the bandsaw is in operation.



OPERATING TIPS

The following tips will help you safely and effectively operate your bandsaw and help you get the maximum life out of your saw.

Tips for horizontal cutting:

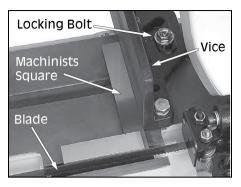
- Use work stop to quickly and accurately cut multiple pieces of stock to the same length.
- Clamp material firmly in the vice jaws to ensure a straight cut through the material.
- Let the blade reach full speed before engaging with the workpiece. Never start a cut with the blade in contact with the workpiece.
- Wait until the blade has completely stopped before removing workpiece from the vice, and avoid touching the cut end as it could be very hot.
- Support long workpieces so they won't fall when cut and flag ends of workpieces to alert passers-by of potential danger.
- Use coolant when possible to increase blade life.
- Loosen blade tension at the end of each day to prolong blade life.

WORK VICE

The vice can cut angles from $0^{\rm o}$ - $45^{\rm o}$ and hold material up to 10.5" wide at $0^{\rm o}$ to 5" wide at $45^{\rm o}.$

TO SQUARE VICE TO BLADE

- 1. Loosen the locking bolt, as shown.
- 2. Use the scale as a guide to set your angle, or a machinists square to square the blade to the vice.
- 3. Tighten the lock bolt.



Lock

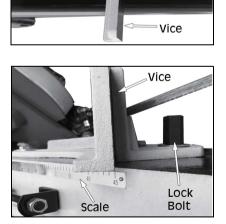
Bolt

munnunnunn

TO ADJUST VICE ANGLE

- 1. Loosen the lock bolt on the rear jaw, as shown, with a wrench.
- 2. Use the scale to set your angle.
- 3. Tighten the lock bolt.

- Loosen the lock bolt on the opposite jaw, as shown, so the jaw can float, and match the angle of the workpiece.
- 5. Tighten vice against the workpiece.
- 6. Tighten the lock bolt.

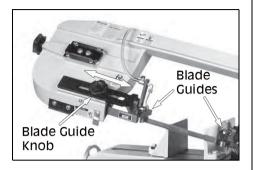


BLADE GUIDES

The blade guides should be positioned approximately 1/4" away from the workpiece if possible. This will help ensure straight cuts by keeping the blade from twisting and drifting off the cut line.

To adjust the blade guides:

- 1. Loosen the blade guide knob as shown.
- 2. Slide the blade guide as close to the workpiece as possible.
- 3. Tighten blade guide knob.

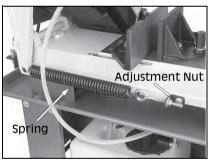


FEED RATE

The speed at which the saw blade will cut through a workpiece is controlled by blade type, feed rate and feed pressure.

To set feed rate:

 Raise the bow to maximum height to remove spring tension. Close the ON/ OFF valve on the hydraulic cylinder to lock bow in place.



- 2. Adjust feed pressure tension spring by rotating the adjustment nut, as shown. Tighten enough to remove play but not enough to apply tension to spring.
 - **NOTE:** This spring adjustment is an initial setting. Depending on cutting circumstances, you will have to fine tune the feed pressure with this adjustment. Increasing the spring tension will reduce the feed pressure.

- 3. Clamp workpiece in table vice.
- 4. Close the feed ON/OFF valve to lock the bow and blade a few inches above the workpiece.
- 5. With the correct saw blade and blade speed selected, turn the saw and lubricant pump ON.
- 6. Open the ON/OFF valve, then slowly rotate the feed rate dial clockwise to a slow feed rate until the saw begins to cut the workpiece.
- Observe the chips that exit the cut, and increase or decrease the feed rate according to the following chip characteristics.



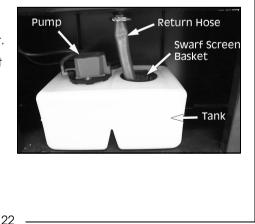
- If the chips are tightly curled, warm shavings, brown to black colour, there is too much downward pressure.
- If the chips are blue looking chips, the blade speed is too high.
- If the chips are thin and powder like, there is insufficient feed pressure. This will dull your blade rapidly.

BLADE LUBRICATION

To increase cutting efficiency and to prolong the blade life, it is recommended that a water soluble cutting lubricant is used with this bandsaw. The 16 litre lubricant tank is located in the base unit of the bandsaw and can be accessed via the rear of the base unit. To fill the tank and use, proceed as follows:

ADDING CUTTING LUBRICANT

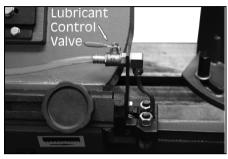
- 1. Always disconnect the machine from the power source before adding or changing the lubricant.
- 2. Slide the tank out of the base unit and unscrew the pump.
 - **NOTE:** Due to the power cable to the pump, the pump must stay with the bandsaw.
- 3. Fill the tank with a suitable lubricant fluid (16 litre capacity) (see page 32)



- 4. Replace the pump and slide the tank back into the base unit.
- 5. Replace the return hose back into the hole with the swarf screen basket.

USING THE CUTTING LUBRICANT

- 1. Check that there is sufficient lubricant in the tank and the pump inlet is submerged.
- 1. Adjust and set the bandsaw up to cut the required item.
- 2. Turn the lubricant pump on and adjust the lubricant control valve to the desired feed rate.
- 3. Turn on the bandsaw and commence cutting.
 - NOTE: When the bandsaw is not in use for long periods or needs transporting, it is recommended that you empty



recommended that you empty the lubricant tank.

MAINTENANCE



WARNING: ALWAYS SWITCH OFF AND DISCONNECT FROM THE POWER SUPPLY BEFORE CARRYING OUT ANY CLEANING OR MAINTENANCE TASKS.

GENERAL

Remove all accumulated swarf from inside the bandsaw frequently using a soft brush and/or vacuum cleaner. Alternatively, if compressed air is used, ensure it is set to no more than 10 psi and wear protective safety glasses. Maintain a thin film of oil on all unpainted surfaces including all screw threads to protect your saw from corrosion.

For optimum performance from your machine, follow this maintenance schedule and refer to any specific instructions given in this section.

DAILY CHECK:

- Loose mounting bolts
- Damage to saw blade
- Worn or damaged wires
- Any other unsafe condition

- Clean after each use
- Check blade tension

MONTHLY CHECK:

- Lubricate vice screw (see below)
- Check gear box lubrication (see page 25)

CLEANING

Cleaning the machine is relatively easy. Vacuum clean excess metal chips and sawdust, and wipe off the remaining dust with a dry cloth. If any resin has built up, use a resin dissolving cleaner to remove it. Treat all unpainted cast iron and steel with a non-staining lubricant after cleaning.

LUBRICATION

An essential part of lubrication is cleaning the components before lubricating them. This step is critical because grime and chips build up on lubricated components over time, which makes them hard to move.

Clean all exterior components in this section with mineral spirits, shop rags and brushes before lubricating.

VICE LEADSCREW

- Lube Type: ISO 68 equivalent oil
- Lube Amount: Thin Coat
- Lube Frequency: Every 40 Hours of operation

TO LUBRICATE VICE LEADSCREW

- 1. Disconnect the machine from the power supply.
- 2. Using the vice hand wheel, move the vice as far froward as possible.
- Use mineral spirits and a brush to clean existing grease and debris off of the vice leadscrew, and allow to dry.
- 4. Apply thin coat of machine oil to exposed leadscrew threads, then move the vice through its full range of motion several times to disperse the oil along the full length of the leadscrew.



GEARS

- Lube Type: NLGI#2 equivalent grease
- Lube Amount: Thin coat
- Lube Frequency: Every 90 Hours of operation

TO LUBRICATE GEARS

- 1. Disconnect the machine from the power supply.
- 2. Remove the cover from the gearbox.
- 3. Using a small brush, apply a thin coat of grease to the headstock gears.
- 4. Re-install the gearbox cover removed in step 2.
- 5. Operate the saw to work the grease through the gears.





BLADE CHANGE

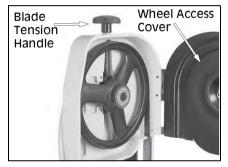
The blade should be changed when it becomes dull, damaged or when you are using materials that require a blade of a certain type or tooth count (see page 31 for replacement blades).

TO CHANGE THE BLADE

1. Disconnect the machine from the power source.

- 2. Raise the bow of the bandsaw to the vertical position, close the feed ON/OFF valve to lock the bow in place and open the wheel access cover.
- 3. Remove the blade guards.

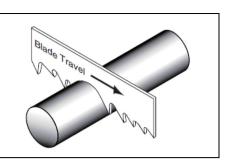
- Feed Rate Dial
- 4. Turning anti-clockwise, loosen the blade tension handle, as shown, and slip the blade off the wheels.



- 5. Install new blade around the bottom wheel and through both blade guide bearings.
- 6. With the blade around the bottom wheel, slip it around the top wheel as shown, keeping the blade between the blade guide bearings



NOTE: It is possible to flip the blade inside out, in which case the blade will be installed in the wrong direction. Check to make sure the blade teeth are facing towards the workpiece, as shown. Some blades have a directional arrow as a guide.



- 7. When the blade is around both wheels, adjust so the back of the blade is against the shoulder of the wheels.
- 8. Complete blade change by following the steps in the Blade Tension & Tracking on page 26.

BLADE TENSION & TRACKING

NOTE: Loosen blade tension at the end of each day to prolong blade life.

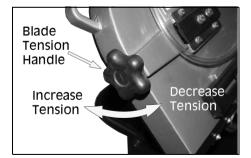
Correct blade tension is essential to long blade life, straight cuts and efficient cutting. This machine features a blade tension indicator to assist you with blade tensioning.

Two major signs that you do not have correct blade tension are:

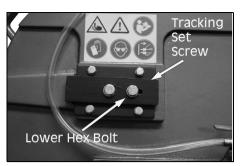
- 1. The blade stalls in the cut and slips on the wheels.
- 2. The blade frequently breaks from being too tight.

TO TENSION BLADE ON BANDSAW

1. Turn the blade tension handle clockwise to increase tension to the blade, anti-clockwise to release tension to the blade.



2. Using the blade tension controls, as shown, tension the blade to the required amount.



3. To fine tune the blade tension, use a blade tensioning gauge.

TO ADJUST BLADE TRACKING ON BANDSAW

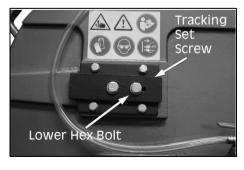
The blade tracking has been correctly set at the factory. The tracking will rarely need to be adjusted if the bandsaw is used properly.

If the tracking does need adjusting, then the following procedures should be undertaken.

- 1. Disconnect the machine from the power source.
- 2. Position the bandsaw in the vertical position.
- 3. Open the wheel access cover.



4. Loosen, but do not remove the lower hex bolt in the blade wheel tilting mechanism.



5. Relax the blade tension.

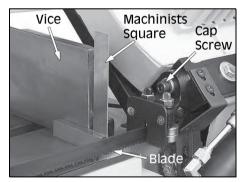
- 6. Adjust set screw with a 4mm hex wrench, then tighten hex bolt loosened in step 4.
 - **NOTE:** Tightening the set screw will move the blade closer to the shoulder of the wheel.
 - **NOTE:** Loosening the set screw will move the blade away from the shoulder.
- 7. Re-tension the blade as set out on page 27.
- 8. Reconnect the machine to the power source and turn the bandsaw on.
 - **NOTE:** If the blade tracks along the shoulder of the wheel (without rubbing), the blade is tracking properly and this adjustment is complete.
 - **NOTE:** If the blade walks away from the shoulder of the wheel or hits the shoulder, repeat sets 4 7 until the blade tracks correctly.
- 9. Turn off the bandsaw.
- 10. Replace the blade guard and wheel access cover.

SQUARING THE BLADE

It is always a good idea during the life of your saw to check and adjust this setting. This adjustment will improve your cutting results and extend the life of the blade.

TO SQUARE THE BLADE TO THE BED OF THE TABLE.

- 1. Disconnect the machine from the power source.
- 2. Lower the head of the bandsaw until it contacts the horizontal stop.
- Place a square on the table bed and against the edge of the blade as shown, and check the different points along the length of the table between the blade guides.
- Loosen the cap screw shown, and rotate the blade guide until the blade is vertical to the bed.
 - **NOTE:** Both the blade guides can be adjusted to achieve the results you want.
- 5. Tighten the cap screw.



BLADE GUIDE BEARINGS

The blade guide bearings come adjusted from the factory and the need for adjustment should rarely occur. Uneven blade wear and crooked cuts may be the results of improper adjustment.

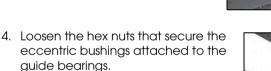
Each bearing assembly has an eccentric bushing that allows the distance between the blade and bearings to be adjusted. The bearings are secured in place by a hex nut and a lock washer.

Before adjusting the blade guide bearings, make sure that you have squared the blade to the table as set out above.

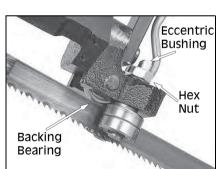
Vice

TO ADJUST BLADE GUIDE BEARINGS

- 1. Disconnect the machine from the power source.
- 2. Position the vice to 90° , then lock in place.
- 3. Put a machinist's square against the face of the vice and move it over to the blade. The square should evenly touch both the face of the vice and the blade. If it does, skip to step 6, if the square does not evenly touch the blade, but does evenly touch the vice, continue with the next step.



- 5. Adjust the bearings as necessary to force the blade to 90° to the vice, then tighten the hex nuts attached to the bearings that are forcing the blade to 90°.
- 6. Check to see if any bearings are not touching the blade evenly. If so



Machinists

Square

Cap

Screw

loosen the hex nuts and adjust eccentric bushing so the contact surface of the bearing touches the blade evenly.

NOTE: Since the bearings twist the blade into position, it is acceptable if there is 0.025mm - 0.050mm of a gap between the blade and the front or back of the bearing. Just make sure not to squeeze the blade too tightly with the bearings. After the guide bearings are set, you should be able to rotate the guide bearings (although they will be stiff) with your fingers.

The backing bearing is not adjustable and should make light contact with the blade.

STORAGE

When storing the bandsaw, disconnect the power cable, cover the machine with a plastic sheet and store it in a dry location.

REPLACEMENT BLADES & SUNDRIES

Replacement blades and sundries are available from your CLARKE dealer;

Blade (10tpi) 1 per pack	Part no 1600772
Blade (24tpi) 1 per pack	Part no 1600771
CLARKE cutting fluid ref: 1 Litre	Part no 3051059
CLARKE cutting fluid ref: 5 Litre	Part no 3051061

TROUBLESHOOTING

Bandsaw Operat	lions	
Problem	Check	Solution
Excessive blade breakage	 Material loose in vice. Incorrect speed or feed. Blade pitch too great. Material too hard. 	 Clamp work securely. Adjust speed or feed. Replace with finer. toothed blade. Select a slower speed
	 5. Incorrect blade tension. 6. Teeth touching work before start-up. 	and finer toothed blade. 5. Adjust blade tension. 6. Place blade in contact. with work after motor has started.
	 Blade rubs on wheel flange. Mis-aligned guide bearings. 	 7. Adjust wheel alignment. 8. Adjust guide bearings.
Premature blade dulling	 Teeth too coarse. Speed too great. Inadequate feed pressure. 	 Use finer tooth blade. Reduce speed. Reduce spring tension on side of saw.
	 4. Hard spots/scale on material. 5. Work hardening of material. 	 Reduce speed/increase feed pressure. Increase feed pressure by reducing spring tension.
	6. Blade twist.	6. Replace with a new blade & adjust tension.
Unusual wear on side/back of blade	 Blade guides worn. Blade guide bearings not adjusted correctly. 	 Replace guides. Adjust bearings.
bidde	3. Blade guide bearing. bracket loose.	3.Tighten bracket.
Teeth ripping from blade	 Teeth too coarse for work. Too slow speed. 	1. Use finer tooth blade. 2. Reduce pressure
	3. Vibrating workpiece.	/ increase speed. 3. Clamp workpiece. securely.
	4. Teeth clogging.	4. Use coarser blade or brush away swarf.

Motor running too	1. Blade tension too high.	1. Reduce blade tension.
hot	2. Drive belt too tight.	2. Reduce drive belt
	3. Gears need lubrication.	tension.
	4. Blade is binding.	3. Check oil bath.
	- Blade le Birlaing.	4. Decrease feed speed.
Devel av de de at	1 Facel average to a superit	
Bad cuts (not cutting square)	1. Feed pressure too great.	 Reduce pressure by increasing spring tension of the saw.
	2. Guide bearing not adjusted	2. Adj guide bearing
	properly.	clearance not greater
		than 0.025mm.
	3. Inadequate blade tension.	3. Increase blade tension.
	4. Dull blade.	4. Replace blade.
	5. Speed incorrect.	5. Adjust speed.
	6. Blade guides too far apart.	6. Adjust guides space.
	7. Blade guide assembly loose	7. Tighten.
	 Blade tracks too far away from wheel flanges. 	 Check and adjust blade tracking.
Bad cuts (rough)	1. Too great a speed of feed.	1. Decrease speed of feed
	2. Blade is too coarse.	2. Replace with finer blade.
	3. Blade tension slack.	3. Adjust blade tension.
Blade is twisting	1. Blade is binding.	1. Decrease feed pressure
	2. Too much blade tension.	2. Decrease blade tension

Motor & Electrical						
Problem	Check	Solution				
Machine does not start or a breaker trips.	 Plug is at fault/wired incorrectly. Power supply is at fault/ switched OFF. Motor wired incorrectly. Start capacitor is at fault. Fuse/circuit breaker is blown/tripped. Motor ON/OFF switch is at fault. Wiring open/has high resistance. Motor is at fault. 	 Test for good contacts, correct wiring. Ensure power supply is switched ON. Correct motor wiring. Test/replace capacitor. Ensure correct size of fuse for the machine load, replace weak breaker. Replace faulty ON/OFF switch. Check/fix broken, disconnected or corroded wires. Test/Repair/Replace. 				

Machine stalls or	1. Wrong Blade for workpiece	1. Use blade with correct
is underpowered	material.	properties for your type of
		cutting.
	2. Wrong workpiece material.	2. Use metal with correct
		properties for your type of
		cutting.
	3. Feed rate/cutting speed	3. Decrease feed rate/
	too fast for task.	cutting speed.
	4. Blade is slipping on wheels.	4. Adjust blade tracking
		and tension.
	5. Low power supply voltage.	5.Make sure the power
		source is set for correct
		voltage.
	6. Motor bearings are at fault.	6. Test by rotating shaft.
		Rotational grinding/loose
		shaft requires bearing
		replacement.
	7. Plug is at fault.	7. Test for good contacts,
		correct the wiring.
	8. Motor connection is wired	8. Correct motor wiring
	incorrectly.	connections.
	9. Motor has overheated.	9. Clean off motor, let cool
		and reduce workload.
	10. Motor is at fault.	10. Test/Repair/Replace.
Machine has	1. Motor fan is rubbing on fan	1. Replace dented fan
vibration or noisy	cover.	cover; replace loose/
operation		damaged fan.
	2. Blade is at fault.	2. Replace/resharpen
		blade.
	3. Gearbox is at fault.	3.Rebuild gearbox and
		replace bad gear(s)/
		bearing(s).
	4. Wrong blade and/or speed	4. Change blade and/or
	too slow.	speed.

PARTS LIST & DIAGRAM

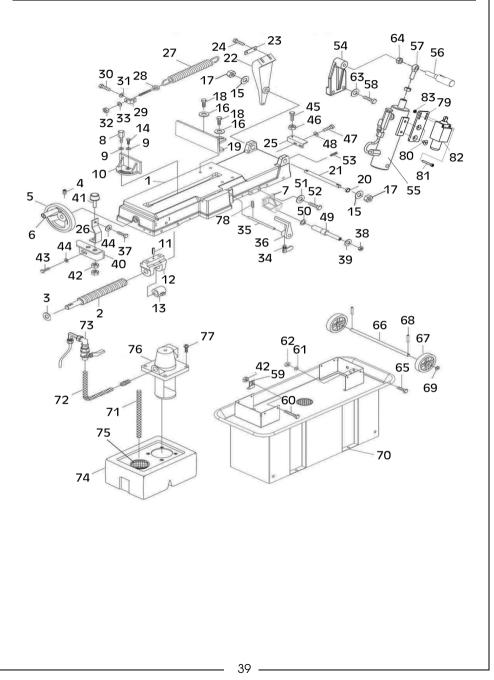
NO	DESCRIPTION	NO	DESCRIPTION
Parts	Diagram A	32	Nut M10
1	Table	33	Washer
2	Adjusting Screw	34	Lock Bolt
3	Spacer	35	Work Stop Rod
4	Set Screw M6 x10	36	Work Stop
5	Wheel	37	Screw M6 x 12
6	Wheel Handle	38	Lock Nut M10
7	Support Bracket	39	Washer
8	Dragging Handle	40	Support Plate
9	Washer 10	41	Buffer Block
10	Vice Jaw Bracket (Rear)	42	Nut M8
11	Spring Pin 6 x 20	43	Hex Bolt M8 x 16
12	Bracket	44	Washer
13	Quick Nut	45	Hex Bolt M8 x 25
14	Hex Bolt M10 x 35	46	Nut M8
15	Washer 16	47	Hex Bolt M8 x 16
16	Washer 12	48	Washer
17	Lock Nut M16	49	Cylinder Support Rod
18	Hex Bolt M12 x 35	50	Washer
19	Vice Jaw Bracket (Front)	51	Washer 10
20	Bushing	52	Bolt M10 x 30
21	Support Rod	53	Set Screw M8 x 12
22	Pivot Bracket	54	Cylinder Bracket
23	Plate	55	Hydraulic Cylinder
24	Hex Bolt M10 x 35	56	Special Bolt
25	Support Plate	57	Joint Bearing
26	Fixed Plate	58	Hex Bolt M8 x 30
27	Spring	59	Keep Plate
28	Spring Adjusting Rod	60	Hex Bolt M8 x 30
29	Spring Handle Bracket	61	Washer
30	Hex Bolt M8 x 16	62	Nut M8
31	Washer 8	63	Washer

NO	DESCRIPTION	NO	DESCRIPTION
64	Nut M10	99	Drive Wheel
65	Hex Bolt M8 x 30	100	Sliding Plate
66	Wheel Rod	101	Blade Tension Sliding Block
67	Wheel	102	Set Screw M8 x 20
68	Cotter Pin 2.5 x 25	103	Hex Bolt M8 x 40
69	Washer	104	Washer
70	Coolant Frame	105	Washer
71	Hose	106	Hex Bolt M6 x 16
72	Hose	107	Spring
73	Nozzle Cock	108	Blade Adjusting Knob
74	Coolant Tank	109	Wheel Shaft Assembly
75	Swarf Filter Screen	110	Idler Wheel Seat
76	Cooling Pump	111	Cotter Pin 5 x 22
77	Pan Head Screw M6 x 12	112	Wheel Shaft
78	Set Screw M6 x 12	113	Spacer
79	Switch Bracket	114	Bearing 6203
80	Sunk Head Screw M6 x 8	115	Circlip
81	Hex Screw M4 x 30	116	Washer
82	Limit Switch	117	Hex Bolt M8 x 16
83	Nut M4	118	Idler Wheel
Parts	Diagram B	119	Blade 0.9 x 19 x 2360
84	Gearbox Assembly(see diag C)	120	Brush Assembly
85	Set Screw M8 x 12	121	Lock Nut M8
86	Key 5 x 5 x 30	122	Brush
87	Key 6 x 6 x 20	123	Brush Shaft
88	Electrical Box	124	Washer
89	Main Switch	125	Brush Bracket
90	Pump Switch	126	Blade Cover, Rear
91	Pulley Cover Micro Switch	127	Knob Bolt
92	Spindle Pulley	128	Adjusting Bracket, Rear
93	Set Screw M8 x 10	129	Guide Block Assembly, Rea
94	Drive-Belt 660	130	Sunk Head Screw
95	Body Frame	131	Splash Guard
96	Washer	132	Eccentric Shaft
97	Hex Bolt M10 x 35	133	Circlip for Shaft
98	Spacer	134	Bearing

NO	DESCRIPTION	NO	DESCRIPTION
35	Bearing Shaft	171	Washer
136	Pin	172	Support Plate
137	Washer	173	Washer
138	Lock Nut M8	174	Hex Bolt M8 x 25
139	Guide Block, Rear	175	Power Switch Cable
140	Adjust Bracket, Front	176	Power Cable
141	Guide Block Assembly, Front	Parts	Diagram C
142	Bracket for Hole	177	Gearbox Assembly
143	Guide Block, Front	178	Gearbox Housing
144	Blade Cover, Front	179	Transmission Wheel Shaft
145	Screw M5 x 10	180	Spacer
146	Screw M6 x 12	181	Oil Seal 25 x 47 x 10
147	Washer	182	Ball Bearing 6005
148	Blade Back Cover	183	Key 6 x 6 x 20
149	Drive Wheel Cover	184	External Retaining Ring 25mm
150	Washer	185	Gearbox Gasket
151	Pan Head Screw M6 x 12	186	Gearbox Cover
152	Closing Bolt	187	Hex Bolt M6 x 12
153	Motor Pulley Cover	188	Vent Plug
154	Shaft Cover	189	Washer
155	Screw M6 x 10	190	Hex Bolt M8 x 16
156	Washer	191	Worm Gear
157	Кеу 6 х 6 х 25	192	Special Washer
158	Motor Pulley	193	Spring Washer
159	Hex Bolt M8 x 25	194	Hex Bolt M10 x 25
160	Hex Bolt M10 x 30	195	Worm Gear Shaft Assembly
161	Hex Bolt M8 x 60	196	Worm Shaft
162	Nut M8	197	Bearing Bushing
163	Motor Mount	198	Ball Bearing 6003
164	Nut M8	199	Oil Seal 17 x 35 x 7
165	Hex Bolt M8 x 16	200	Key 5 x 5 x 30
166	Washer	201	Set Screw M10 x 16
167	Motor Mount Bracket	202	Bearing Cover
168	Washer	203	Spacer
169	Motor	204	Set Screw M8 x 10
170	Screw M6 x 12	205	Screw M5 x 10

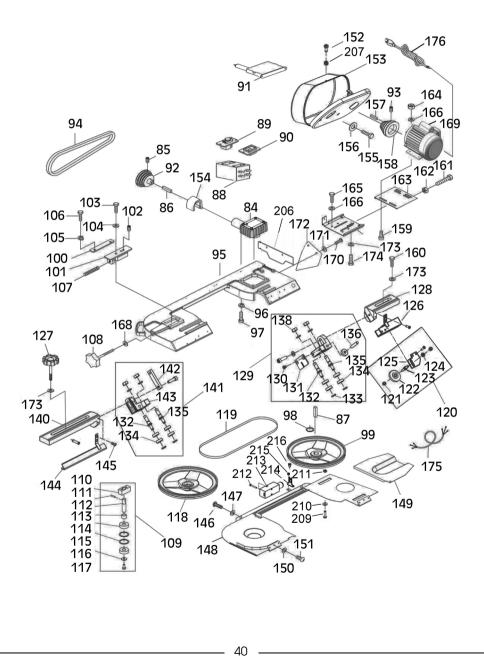
NO	DESCRIPTION	NO	DESCRIPTION
Parts	Diagram B Additions		
206	End Plate	212	Screw
207	Nut	213	Switch
208	Pin	214	Switch Bracket
209	Bolt	215	Nut
210	Washer	216	Screw
211	Nut		

PARTS DRAWING A



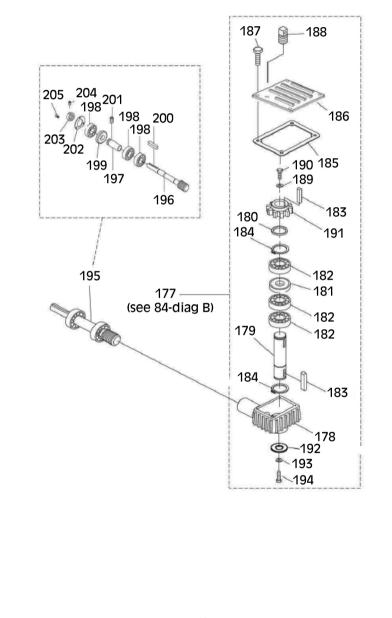
Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

PARTS DRAWING B



Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

PARTS DRAWING C



DECLARATION OF CONFORMITY - UKCA

	CIAILK()
	INTERNATIONAL
	Hemnall Street, Epping, Essex CM16 4LG
	DECLARATION OF CONFORMITY
This i	s an important document and should be retained.
We hereby declare that th	is product(s) complies with the following statuary requirement(s):
Supply of Machinery	(Safety) Regulations 2008
Electromagnetic Corr	npatibility Regulations 2016
The Restriction of the Regulations 2012	Use of Certain Hazardous Substances in Electrical and Electronic Equipment
The following standards h	nave been applied to the product(s):
EN 60204-1:2006+A1	1:2009+AC:2010, EN 60034-1:2010, EN 13898:2003+A1:2009+AC:2010,
	l 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 62321-3-1:2013,
150 00004 4 0040	MD1-2017 JEC 62221 5-2012 JEC 62221 6-2015 JEC 62221 7 1-0015
IEC 62321-4:2013+A	MD1:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015,
	EN ISO 17075-1:2017.
IEC 62321-7-2:2017, The technical documentation aforementioned legislation	
IEC 62321-7-2:2017, The technical documentation aforementioned legislation	EN ISO 17075-1:2017.
IEC 62321-7-2:2017, The technical documentatic aforementioned legislation authorities.	EN ISO 17075-1:2017. on required to demonstrate that the product(s) meet(s) the requirement(s) of the has been compiled and is available for inspection by the relevant enforcement
IEC 62321-7-2:2017, The technical documentatic aforementioned legislation authorities. Product Description:	EN ISO 17075-1:2017. on required to demonstrate that the product(s) meet(s) the requirement(s) of the has been compiled and is available for inspection by the relevant enforcement The UKCA mark was first applied in: 2022
IEC 62321-7-2:2017, The technical documentatic aforementioned legislation authorities. Product Description: Model number(s):	EN ISO 17075-1:2017. on required to demonstrate that the product(s) meet(s) the requirement(s) of th has been compiled and is available for inspection by the relevant enforcemen The UKCA mark was first applied in: 2022 7" Metal Cutting Band Saw
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IEC 62321-7-2:2017, The technical documentation	EN ISO 17075-1:2017. on required to demonstrate that the product(s) meet(s) the requirement(s) of the has been compiled and is available for inspection by the relevant enforcement The UKCA mark was first applied in: 2022 7" Metal Cutting Band Saw CBS7MC N/A
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DECLARATION OF CONFORMITY - CE

CE	Clarke
	INTERNATIONAL
	Fitzwilliam Hall, Fitzwilliam Place, Dublin 2
	DECLARATION OF CONFORMITY
Т	his is an important document and should be retained.
We hereby declare th	at this product(s) complies with the following directive(s):
2006/42/EC	Machinery Directive
	Electromagnetic Compatibility Directive
2011/65/EU	Restriction of Hazardous Substances (Amended by 2015/863/EU)
The following standa	rds have been applied to the product(s):
)6+A1:2009+AC:2010, EN 60034-1:2010, EN 13898:2003+A1:2009+AC:2010,
	7,EN 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 62321-3-1:2013,
	13+AMD1:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015,
IEC 62321-4:20	13 AMD 1.2017, IEC 02321-3.2013, IEC 02321-0.2013, IEC 02321-7-1.2015,
IEC 62321-7-2:2	2017, EN ISO 17075-1:2017.
IEC 62321-7-2:2 The technical docume aforementioned directi	2017, EN ISO 17075-1:2017.
IEC 62321-7-2:2 The technical docume aforementioned directi authorities.	2017, EN ISO 17075-1:2017. Intation required to demonstrate that the product(s) meet(s) the requirement(s) of the ve(s) has been compiled and is available for inspection by the relevant enforceme
IEC 62321-7-2:2 The technical docume aforementioned directi authorities. Product Description:	2017, EN ISO 17075-1:2017. Intation required to demonstrate that the product(s) meet(s) the requirement(s) of the ve(s) has been compiled and is available for inspection by the relevant enforcement The CE mark was first applied in: 2022
IEC 62321-7-2:2	2017, EN ISO 17075-1:2017. Intation required to demonstrate that the product(s) meet(s) the requirement(s) of the ve(s) has been compiled and is available for inspection by the relevant enforcement The CE mark was first applied in: 2022 7" Metal Cutting Band Saw CBS7MC
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Parts Enquiries Parts@clarkeinternational.com

Servicing & Technical Enquiries Service@clarkeinternational.com

SALES: UK 01992 565333 or Export 00 44 (0)1992 565335

CLAPEC INTERNATIONAL Hemnall Street, Epping, Essex CM16 4LG www.clarkeinternational.com